

Human Nutrition, Food Safety, and Human Health and Well Being

Human Nutrition, Food Safety, and Human Health and Well Being

V(A). Planned Program (Summary)

1. Name of the Planned Program

Human Nutrition, Food Safety, and Human Health and Well Being

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
702	Requirements and Function of Nutrients and Other Food Components	40%		40%	
703	Nutrition Education and Behavior	25%		25%	
724	Healthy Lifestyle	35%		35%	
Total		100%		100%	

V(C). Planned Program (Inputs)

1. Actual amount of professional FTE/SYs expended this Program

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.2	0.0	2.6	0.0
Actual	0.2	0.0	1.0	0.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
	0	112384	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	502737	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	33809	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- Conduct Research Experiments.
 - Conduct Workshops, meetings.
 - Deliver Services.
 - Develop Products, Curriculum, Resources.
 - Provide Training.
 - Provide Counseling.
 - Assessments.
 - Partnering.

2. Brief description of the target audience

- youth aged 13-18
- economists
- nutritionist
- policy makers
- social program agencies

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	50	0	0	0
2008	0	0	0	0

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year	Target
Plan:	0
2008:	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	4	
2008	0	16	16

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

SCHOLARLY excellence in referred articles, book chapters, and books; participation on professional boards and panels, as well as science panels.

Year	Target	Actual
2008	5	42

Output #2

Output Measure

EFFECTS ON AND PROTECTION OF HUMAN HEALTH establish low zinc as a risk factor for the development of prostate cancer by inducing oxidative DNA damage and compromising DNA repair mechanisms. test the ability of zinc supplementation to reduce the incidence of prostate cancer via modification of prostate inflammation, oxidative damage and DNA damage/repair. identify strategies (message, pricing, foods) that will increase choosing healthful food choices among adolescents and young adults new or improved intervention strategies for implementation in the community setting. and tools for measuring the effectiveness of the interventions targeted to childhood overweight in low income families. Identification of objective, physiological-based measures that correspond to target behaviors (bio-behavioral markers) for use later as measures of intervention progress and success or means for tailoring interventions in ways that will be most effective for specific groups and subgroups. Identification of key parent-child relationships that contribute to childhood overweight and resiliency in various populations.

Year	Target	Actual
2008	3	21

V(G). State Defined Outcomes

O No.	Outcome Name
1	<p>Informed decision-makers and citizenry</p> <ul style="list-style-type: none"> • Identify new risk factors in prostate cancer and offer novel dietary modifications to reduce the incidence of prostate cancer o Establish low zinc as a risk factor for the development of prostate cancer by inducing oxidative DNA damage and compromising DNA repair mechanisms. o Understand mechanisms of how zinc deficiency alters DNA integrity. • Gain knowledge of the mechanisms behind the health benefits of cruciferous vegetables. • Develop an understanding of motivations for food choice and strategies to impact them and identify strategies (message, pricing, foods) that will increase choosing healthful food choices among adolescents and young adults • new or improved obesity intervention strategies in the community setting • Objective, physiological-based measures that correspond to target behaviors (bio-behavioral markers) for use later as measures of intervention progress and success or means for tailoring effective interventions • key parent-child relationships that reflect resiliency and the interaction of these relationships with targeted nutritional behaviors • understanding of various inputs and interactions of family and child, SES, nutrition, physiology and behavior
2	<p>Best Practices Assist and influence food service vendors to find successful strategies for marketing healthful food options Influence school policies for offering/encouraging healthful foods Markers and strategies will become the standards of methods and measurement of childhood overweight and resiliency. More effective programs and student experiences</p>
3	<p>Improved technologies and practices found Markers for oxidative stress and DNA integrity would potentially lead to novel approaches for identifying biomarkers of zinc deficiency in humans. Zinc supplementation will be an effective strategy in limiting the incidence of prostate cancer Effective dietary intervention strategies that are broadly applicable and public health recommendations that will significantly reduce the burden of prostate cancer. Advances in the study of obesity</p>
4	<p>In the long run: Reduce health care costs associated with prostate cancer Improve the quality of life of thousands of American men Control the growth in the rate of obesity and osteoporosis among youth Solutions reverse trends in childhood obesity</p>

Outcome #1

1. Outcome Measures

Not reporting on this Outcome for this Annual Report

2. Associated Institution Types

3a. Outcome Type:

3b. Quantitative Outcome

Year	Quantitative Target	Actual
------	---------------------	--------

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
---------	----------------

V(H). Planned Program (External Factors)

External factors which affected outcomes

Economy

Public Policy changes

Competing Public priorities

Brief Explanation

{No Data Entered}

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}